
REMARKS

Status of the Application

Claims 1, 2, 4, 7, 8, 12, 15, 19, 23, 24, 29, 32, and 36 were previously pending. Claim 1 was objected to for informalities. Claims 1, 2, 4, 7, 8, 12, 15, 19, 23, 24, 29, 32, and 36 were rejected under 35 USC 112, second paragraph. Claims 1, 2, 12, 15, 29, 32, and 36 were rejected under 35 USC 102(b) as being anticipated by Komuro et al. (US 5,557,083). Claims 23 and 24 were rejected under 35 USC 103(a) as being unpatentable over Komuro et al. (US 5,557,083). Claims 1, 2, 4, 7, 8, 12, 15, 19, 23, 24, 29, 32, and 36 were also provisionally rejected under the judicially created doctrine of obviousness-type double patenting.

Applicant has amended claims 1, 2, 4, 7, 8, 12, 15, 19, and 36, and added new claims 38-40. Claims 23, 24, 29, and 32 remain unchanged. No new matter adds through the amendments. For the reasons discussed below, withdrawal of the rejections is requested.

Claim Objections

Claim 1 was objected to for informalities.

The Examiner is thanked for pointing out the informality. In the amended claim 1, the informality has been corrected. Withdrawal of the objection is requested.

Claim Rejections- 35 U.S.C. 112, Second Paragraph

Claims 1, 2, 4, 7, 8, 12, 15, 19, 23, 24, 29, 32, and 36 were rejected under 35 USC 112, second paragraph.

Applicant has carefully reviewed and amended the claims to correct the deficiencies mentioned in the Office Action and other deficiencies. It is believed the amendments made to the claims overcome the rejections.

Withdrawal of the rejection is requested.

Claim Rejections- 35 U.S.C. 102(b)

Claims 1, 2, 12, 15, 29, 32, and 36 were rejected under 35 USC 102(b) as being anticipated by Komuro et al. (US 5,557,083).

Applicant respectfully traverses the rejection for reasons discussed below.

Claim 1, as amended, recites:

Claim 1. An integrated contact, comprising:

an arc proof component;

a conductive component;

a magnetic field generating component, having a top and a bottom and a through hole extending from the top to the bottom; and

a container having a center, a top, and a cylindrical inner sidewall, wherein the arc proof component, the conductive component and the magnetic field generating component are set in the container, *the magnetic field generating component and the conductive component are mutually combined to form a cylindrical body which fits the cylindrical inner sidewall of the container, so that the container holds the cylindrical body in position*, and the arc proof component is set on top of the combination of the magnetic field generating component and the conductive component; the combination of the magnetic field generating component and the conductive component are configured to produces a magnetic field.

Komuro at least does not teach or suggest the above emphasized features of claim 1. More specifically, Komuro does not teach a container for a single multipolar integrated contact. Claim 1 recites a multipolar integrated *contact* which comprises a container to contain an arc proof component, a conductive component, and a magnetic field generating component of the contact. As shown in Fig. 8, Komuro teaches an insulating cylinder 35. However, the insulating cylinder 35 is not for a contact, but for a vacuum valve. The insulating cylinder 35 together with a pair of upper and lower plates 38a, 38b constitutes a vacuum vessel defining a vacuum chamber. Inside the vessel, two contacts 30a, 30b and two electroconductive rods 34a, 34b. Komuro also teaches a shield member 36 as magnetic cylinder disposed around both arc electrodes. Col. 11, line 66 – Col. 12, line 26. Clearly, Komuro does not teach or suggest a container for a single contact as in the present invention.

Furthermore, Komuro does not teach or suggest that “the magnetic field generating component and the conductive component are mutually combined to form a cylindrical body which fits the cylindrical inner sidewall of the container, so that the container holds the cylindrical body in position” as recited in the amended claim 1. As shown in Figs. 8-10, Komuro teaches two contacts 30a, 30b located inside a vacuum chamber. Contract 30 has an arc electrode 31, an arc electrode support member 32, and a magnetic field generating electrode 33. Arc electrode 31 and magnetic field generating electrode 33 are attached to a fixed electroconductive rod 34. Col. 12, lines 5-9. Clearly, the contact 30 is not held in position by a container. In the present invention as defined in claim 1, the magnetic field generating component and the

conductive component is combined to form a cylindrical body which fits the cylindrical inner sidewall of the container. Komuro does not teach or suggest such a cylindrical body formed by a magnetic field generating component and a conductive component, and held in position by the contained.

For at least the reasons discussed above, Komuro cannot anticipate claim 1. For at least the same reasons, its dependent claims 2, 12, 15, 29, 32, and 36 are not anticipated by Komuro either.

In addition, these dependent claims contain features that further distinguish over the cited prior art.

For example, the amended claim 2 recites "when the magnetic field generating component is combined with the conductive component, the oblique section of the magnetic field generating component faces and matches the supporting oblique section of the conductive component". Komuro does not teach or suggest such features. Komuro does not teach or suggest a conductive component having a supporting oblique section which matches the oblique section of the magnetic field generating component when combined with the later. Fig. 10 of Komuro shows inclined slits 56 formed between the input and output ends 54, 55 of the cylindrical portion 42 which constitutes the magnetic field generating electrode 33. Col. 13, lines 26-28 and 44-47. In other words, the inclined slits 54, 55 are formed on the magnetic field generating component, but not on the conductive component.

Claim 15 recites: "the magnetic field generating component is a multi-layer cylinder structure comprising cylindrical-shape layers with different diameters arranged substantially parallel with an axial direction of the cylindrical body", "the conductive component is a multi-layer cylinder structure comprising cylindrical-shape layers with different diameters arranged substantially parallel with an axial direction of the cylindrical body, an inner cylinder body is located at a center of the multi-layer cylinder structure of the conductive component and configured for insertion into the through hole in the magnetic field generating component". Komuro clearly does not teach or suggest these features.

For reasons discussed above, withdrawal of the rejections is requested.

Claim Rejections- 35 U.S.C. 103(a)

Claims 23 and 24 were rejected under 35 USC 103(a) as being unpatentable over Komuro et al. (US 5,557,083).

For the reasons discussed above, claim 1 is believed patentable over Komuro. For at least the same reasons, its dependent claims 23 and 24 are also patentable over Komuro.

Claim Rejections- Double Patenting

Claims 1, 2, 4, 7, 8, 12, 15, 19, 24, 29, 32, and 36 were provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being obvious over claims 1, 2, 5, 6, 10, 11, 13, 14, 17, 21, 24, and 28 of copending application No. 10/648,607.

Applicant will file a terminal disclaimer to obviate the rejection when this application is otherwise in condition for allowance.

New Claims

New claims 38-40 have been added. Claims 38-40 depend from claim 1 and claim 8, respectively, and contain features that further distinguish over the cited prior art. New claim 38 is fully supported by the specification and the drawings, for example, Fig. 14. New claim 39 is fully supported by the specification and the drawings, for example, Figs. 5, and 12-14.

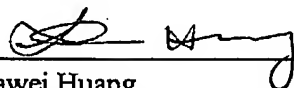
Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that the remaining claims 1, 2, 4, 7, 8, 12, 15, 19, 24, 29, 32, 36, and 38-40 are now in condition for allowance. Allowance of this application is earnestly solicited.

Respectively submitted

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